

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A computer program product, tangibly embodied in an information carrier, for representing hierarchical list data, the computer program product being operable to cause data processing apparatus to perform operations comprising:

receiving a first list comprising an element A1 and an element A2, the element A2 comprising a first nested list comprising an element N1 and an element N2;

receiving a second list comprising an element B1 and an element B2, the element B2 comprising a second nested list comprising an element M1 and an element M2;

storing the elements A1 and B1 in a first array; and

storing the elements A2 and B2 in a second array, the second array comprising a first sub-array to store the elements N1 and M1, and a second sub-array to store the N2 and M2; and

displaying data stored in the first array and the second array.

2. (Original) The product of claim 1, wherein storing the elements A1 and B1 in a first array and storing the elements A2 and B2 in a second array each includes:

using a tree data structure to parse the first and second lists.

3. (Original) The product of claim 2, wherein the tree data structure includes:

a first node representing element A1;

a second node representing element A2; and

a third node representing the element N1, the third node being arranged as a child of the second node.

4. (Original) The product of claim 1, wherein the operations further comprise:
transferring the first and second arrays between a client and a server.

5. (Currently amended) A computer program product, tangibly embodied in an information carrier, for representing hierarchical list data, the computer program product being operable to cause data processing apparatus to perform operations comprising:

receiving a first array that contains elements A1 and B1;

receiving a second array that contains elements A2 and B2, the second array comprising a first sub-array that contains elements N1 and M1, and a second sub-array that contains elements N2 and M2; and

generating a first and second list based on the first and second arrays, the first list comprising the element A1 and the element A2, the element A2 comprising a first nested list comprising the element N1 and the element N2; the second list comprising the element B1 and the element B2, the element B2 comprising a second nested list comprising the element M1 and the element M2; and

displaying data stored in the first list and the second list.

6. (Original) The product of claim 5, wherein generating a first and second list includes:

using a tree data structure to parse the first and second arrays.

7. (Original) The product of claim 6, wherein the tree data structure includes:

a first node representing element A1;

a second node representing element A2; and

a third node representing the element N1, the third node being arranged as a child of the second node.

8. (Currently amended) Apparatus comprising:

means for receiving a first list comprising an element A1 and an element A2, the element A2 comprising a first nested list comprising an element N1 and an element N2;

means for receiving a second list comprising an element B1 and an element B2, the element B2 comprising a second nested list comprising an element M1 and an element M2;

means for storing the elements A1 and B1 in a first array; ~~and~~

means for storing the elements A2 and B2 in a second array, the second array comprising a first sub-array to store the elements N1 and M1, and a second sub-array to store the N2 and M2; and

means for displaying data stored in the first array and the second array.

9. (Original) The apparatus of claim 8, wherein the means for storing the elements A1 and B1 in a first array and the means for storing the elements A2 and B2 in a second array each includes:

means for using a tree data structure to parse the first and second lists.

10. (Original) The apparatus of claim 9, wherein the tree data structure includes:

a first node representing element A1;

a second node representing element A2; and

a third node representing the element N1, the third node being arranged as a child of the second node.

11. (Cancelled)

12. (Original) The apparatus of claim 8, further comprising:

means for transferring the first and second arrays between a client and a server.

13. (Currently amended) Apparatus comprising:

means for receiving a first array that contains elements A1 and B1;

means for receiving a second array that contains elements A2 and B2, the second array comprising a first sub-array that contains elements N1 and M1, and a second sub-array that contains elements N2 and M2; and

means for generating a first and second list based on the first and second arrays, the first list comprising the element A1 and the element A2, the element A2 comprising a first nested list comprising the element N1 and the element N2; the second list

comprising the element B1 and the element B2, the element B2 comprising a second nested list comprising the element M1 and the element M2; and

means for displaying data stored in the first list and the second list.

14. (Original) The apparatus of claim 13, wherein the means for generating a first and second list includes:

means for using a tree data structure to parse the first and second arrays.

15. (Original) The apparatus of claim 13, wherein the tree data structure includes:

a first node representing element A1;

a second node representing element A2; and

a third node representing the element N1, the third node being arranged as a child of the second node.